



## RAW SEQUENCE LISTING ERROR REPORT

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Application Serial Number: 10/087,631A  
Source: OIPF  
Date Processed by STIC: 5-22-02

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FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)

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Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:  
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7<sup>th</sup> Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202  
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Does Not Comply  
Corrected Diskette Needed

OIPE

## RAW SEQUENCE LISTING

DATE: 05/22/2002

PATENT APPLICATION: US/10/087,631A

TIME: 11:25:35

Input Set : A:\1803.txt

Output Set: N:\CRF3\05222002\J087631A.raw

```

4 <110> APPLICANT: Jaeger, Stephan
6 <120> TITLE OF INVENTION: A method for determination of a nucleic acid using a
7   control
9 <130> FILE REFERENCE: 18981
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/087,631A
C--> 12 <141> CURRENT FILING DATE: 2002-05-13
14 <160> NUMBER OF SEQ ID NOS: 17
16 <170> SOFTWARE: PatentIn Ver. 2.1
18 <210> SEQ ID NO: 1
19 <211> LENGTH: 21
20 <212> TYPE: DNA
21 <213> ORGANISM: Artificial Sequence
23 <220> FEATURE:
24 <223> OTHER INFORMATION: Description of Artificial Sequence: artificial
25   sequence to exemplify principle
27 <400> SEQUENCE: 1
28 agcgcatgcc agattactgg c 21
30 <210> SEQ ID NO: 2
31 <211> LENGTH: 21
32 <212> TYPE: DNA
33 <213> ORGANISM: Artificial Sequence
35 <220> FEATURE:
36 <223> OTHER INFORMATION: Description of Artificial Sequence: artificial
37   sequence to exemplify principle
39 <400> SEQUENCE: 2
40 tcgcgtacgg tctaagacc g 21
42 <210> SEQ ID NO: 3
43 <211> LENGTH: 34
44 <212> TYPE: DNA
45 <213> ORGANISM: Artificial Sequence
47 <220> FEATURE:
48 <223> OTHER INFORMATION: Description of Artificial Sequence: ST650 HCV
49   specific probe sequence
51 <220> FEATURE:
52 <221> NAME/KEY: N_region
53 <222> LOCATION: (15)
54 <223> OTHER INFORMATION: n represents abasic linker
55   (((2-amino-cyclohexyl-)propan-1,3-diol))
57 <400> SEQUENCE: 3
W--> 58 cgggtgtactc accgnttcgc cagaccacta tggc
60 <210> SEQ ID NO: 4
61 <211> LENGTH: 31
62 <212> TYPE: DNA

```

'n' can only be  
a nucleotide or  
modified nucleotide

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63 <213> ORGANISM: Artificial Sequence

65 <220> FEATURE:

66 <223> OTHER INFORMATION: Description of Artificial Sequence: ST2535 probe

67 sequence

69 <220> FEATURE:

70 <221> NAME/KEY: N\_region

71 <222> LOCATION: (14)

72 <223> OTHER INFORMATION: n represents an abasic linker

73 (2-amino-cyclohexyl-)propan-1,3-diol) — 'n' can only be a  
 75 <400> SEQUENCE: 4 nucleotide or modified  
 W--> 76 tggactcagt cctntggtca tctcaccttc t<sup>31</sup>  
 78 <210> SEQ ID NO: 5  
 79 <211> LENGTH: 34  
 80 <212> TYPE: DNA  
 81 <213> ORGANISM: Artificial Sequence  
 83 <220> FEATURE:

84 <223> OTHER INFORMATION: Description of Artificial Sequence: ST650pc probe

85 sequence (parallel-complementary to ST650)

87 <220> FEATURE:

88 <221> NAME/KEY: N\_region

89 <222> LOCATION: (15)

90 <223> OTHER INFORMATION: n represents an abasic linker

91 (2-amino-cyclohexyl-)propan-1,3-diol  
 93 <400> SEQUENCE: 5

W--> 94 gccacatgag tggcnaaggc gtctggtgat accg 34

96 <210> SEQ ID NO: 6

97 <211> LENGTH: 26

98 <212> TYPE: DNA

99 <213> ORGANISM: Artificial Sequence

101 <220> FEATURE:

102 <223> OTHER INFORMATION: Description of Artificial Sequence: ST280

103 HCV-specific Primer-sequence

105 <400> SEQUENCE: 6

106 gcagaaagcg tctagccatg gcgtta 26

108 <210> SEQ ID NO: 7

109 <211> LENGTH: 28

110 <212> TYPE: DNA

111 <213> ORGANISM: Artificial Sequence

113 <220> FEATURE:

114 <223> OTHER INFORMATION: Description of Artificial Sequence: ST778

115 HCV-specific Primer-sequence

117 <400> SEQUENCE: 7

118 gcaagcaccc tatcaggcag taccacaa 28

120 <210> SEQ ID NO: 8

121 <211> LENGTH: 26

122 <212> TYPE: DNA

123 <213> ORGANISM: Artificial Sequence

125 <220> FEATURE:

126 <223> OTHER INFORMATION: Description of Artificial Sequence: ST280pc Primer

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127      parallel-complementary to ST280
129 <400> SEQUENCE: 8
130 cgtcttttcgc agatcgggtac ctcaat
132 <210> SEQ ID NO: 9
133 <211> LENGTH: 28
134 <212> TYPE: DNA
135 <213> ORGANISM: Artificial Sequence
137 <220> FEATURE:
138 <223> OTHER INFORMATION: Description of Artificial Sequence:ST778pc Primer
139      parallel-complementary to ST778
141 <400> SEQUENCE: 9
142 cgttcgtggg atagtcggtc atggtggt
144 <210> SEQ ID NO: 10
145 <211> LENGTH: 241
146 <212> TYPE: DNA
147 <213> ORGANISM: Artificial Sequence
149 <220> FEATURE:
150 <223> OTHER INFORMATION: Description of Artificial Sequence: DNA sequence
151      derived by amplification of HCV type 1 using the
152      primers ST280 and ST778
154 <400> SEQUENCE: 10
155 gcagaaagcg tctagccatg gcgttagtat gagtgtcgtg cagcctccag gacccccct 60
156 cccgggagag ccatagtggg ctgcggaacc ggtgagtaca ccggaattgc caggacgacc 120
157 gggtcctttc ttggatcaac ccgctcaatg cctggagatt tgggcgtgcc cccgcgagac 180
158 tgctagccga gtagtggttg gtcgcgaaag gccttggtgt actgcctgat aggggtgctt 240
159 c
161 <210> SEQ ID NO: 11
162 <211> LENGTH: 943
163 <212> TYPE: DNA
164 <213> ORGANISM: Artificial Sequence
166 <220> FEATURE:
167 <223> OTHER INFORMATION: Description of Artificial Sequence: QS(pc)HCV
168      being parallel-complementary to according region
169      of the HCV typel genome
171 <400> SEQUENCE: 11
172 agatctccgc tgtgagggtg tatctagtga ggggacactc cttgatgaca gaagtgcgtc 60
173 tttcgcagat cggtagcgca atcatactca cagcaagtcg gaggtcctgg gggggagggc 120
174 cctctcggtg taaccagacg ccttggccac tcatgtggcc ttaacgggtc tgctggccca 180
175 ggaaagaacc tagttgggag agttacggac ctctaaaccc gcacgggggc gctctgacga 240
176 tcggctcacc acaaccacgc gctttccgga acaccatgac ggactatccc acgaacgctc 300
177 acggggccct ccagagcacc tggcacgtgg tactcgtgct taggatttgg agtttctttt 360
178 tggtttgcat tgtggttggt ggcaggtgtc ctgcagttca agggcccgcc accagtctag 420
179 caaccacctc aaatggacaa cggcgcgctc ccggggtcca acccacacgc gcgcgagtc 480
180 ttctgaaggc tcgccagcgt tggagcacct tccgctgttg gataggggtt ccgagcggct 540
181 gggctcccgt cccggacccg agtcggggcc atgggaaccg gggagatacc gttactccc 600
182 taccacaccc gtctaccga ggacagtggg gcaccaagag ccggatcaac cccggggagt 660
183 ctgggggccc catccagcgc attaaacca ttccagtagc tatgggaatg tacgccgaag 720
184 cggctggagt accccatgta aggcgagcag ccgcggggag atcccccgcg gcggtcccgg 780
185 gaccgcgtac cgcaggccca agacctcctg ccgcacttga tacgttgtcc cttaaacygg 840

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```

186 ccaacgagaa agagatagaa ggagaaccca aacgacagaa caaactggta gggtcgaagg 900
187 cgaatacttc acgcgtaaac atgaggatta cccatgtaag ctt 943
189 <210> SEQ ID NO: 12
190 <211> LENGTH: 241
191 <212> TYPE: DNA
192 <213> ORGANISM: Artificial Sequence
194 <220> FEATURE:
195 <223> OTHER INFORMATION: Description of Artificial Sequence: amplicon
196     derived from QS(pc)HCV using the primers ST280pc
197     and ST778pc
199 <400> SEQUENCE: 12
200 cgtctttcgc agatcggtag cgcaatcata ctacacagcac gtcggagggtc ctgggggggga 60
201 gggccctctc ggtatcacca gacgccttgg ccaactcatgt ggccttaacg gtcctgctgg 120
202 cccaggaaag aacctagttg ggcgagttac ggacctctaa acccgcacgg gggcgctctg 180
203 acgatcggct catcacaaac cagcgctttc cggaacacca tgacggacta tcccacgaac 240
204 g 241
206 <210> SEQ ID NO: 13
207 <211> LENGTH: 241
208 <212> TYPE: DNA
209 <213> ORGANISM: Artificial Sequence
211 <220> FEATURE:
212 <223> OTHER INFORMATION: Description of Artificial Sequence: amplicon
213     sequence derived from QSHCV (HCV amplification
214     control having binding sites for ST280, ST778 and
215     ST2535) using the primers ST280 and ST778
217 <400> SEQUENCE: 13
218 gcagaaagcg tctagccatg gcgttagtat agtggcgtga gagcagccct tgccctgccc 60
219 accgcgcgtc tagaaggtag gatgaccaga ggactgagtc caatgcatgc tggctccgag 120
220 atgctccgca aacttgccgt caacgtgact gcgtacggcg ggcgtgcccg cctggctgtg 180
221 tatgagctgg tgaccgtgat ctggctggag gccttggtgt actgctgat aggggtgctt 240
222 c 241
224 <210> SEQ ID NO: 14
225 <211> LENGTH: 375
226 <212> TYPE: DNA
227 <213> ORGANISM: Artificial Sequence
229 <220> FEATURE:
230 <223> OTHER INFORMATION: Description of Artificial Sequence: ICSJ620HCV
231     (HCV specific amplification control having a
232     binding site for ST280 and ST778 and an internal
233     region being parallel-complementary to HCV)
235 <400> SEQUENCE: 14
236 agatctcggg cgggggacta ccccgctgt gaggtggtac ttagtgaggg gacactcctt 60
237 gatgacagaa gtggcagaaa gcgctagacc atggcggttac atactcacag cacgtcggag 120
238 gtcctggggg ggagggccct ctcggtatca ccagacgcct tggcactca tgtggcctta 180
239 acggtcctgc tggccagga aagaacctag tttgggcgag ttacggacct ctaaacccgc 240
240 acggggggcg tctgacgata ggctcatcac aaccacgcgc ttccgggtt tggtagtgc 300
241 tgataggggt cttgcctcga ggggccctcc agagcatctg gcacgtggaa acatgaggat 360
242 taccatgta agctt 375
244 <210> SEQ ID NO: 15

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## RAW SEQUENCE LISTING

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Input Set : A:\1803.txt

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245 <211> LENGTH: 242
246 <212> TYPE: DNA
247 <213> ORGANISM: Artificial Sequence
249 <220> FEATURE:
250 <223> OTHER INFORMATION: Description of Artificial Sequence: amplicon
251     derived from ICSJ620HCV (HCV-specific
252     amplification control) using ST280 and ST778 as
253     primers
255 <400> SEQUENCE: 15
256 gcagaaagcg tctagccatg gcgttacata ctcacagcac gtcggagggtc ctggggggga 60
257 gggccctctc ggtatcacca gacgccttgg ccactcatgt ggccttaacg gtccctgctgg 120
258 cccaggaaag aacctagttt gggcgagtta cggacctcta aaccgcacg ggggcgctct 180
259 gacgatcggc tcatcacaac ccagcgcttt ccggttggtg tactgcctga taggggtgctt 240
260 gc                                     242
262 <210> SEQ ID NO: 16
263 <211> LENGTH: 46
264 <212> TYPE: DNA
265 <213> ORGANISM: Artificial Sequence
267 <220> FEATURE:
268 <223> OTHER INFORMATION: Description of Artificial Sequence: NTQ21-46-A
270 <400> SEQUENCE: 16
271 cgatcatctc agaacattct tagcggttttg ttcttggtga tgcacg 46
273 <210> SEQ ID NO: 17
274 <211> LENGTH: 21
275 <212> TYPE: DNA
276 <213> ORGANISM: Artificial Sequence
278 <220> FEATURE:
279 <223> OTHER INFORMATION: Description of Artificial Sequence: artifical
280     sequence to exemplify principle
282 <400> SEQUENCE: 17
283 cggtcattag accgtacgcg a 21

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RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/087,631A

DATE: 05/22/2002  
TIME: 11:25:36

Input Set : A:\1803.txt  
Output Set: N:\CRF3\05222002\J087631A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; N Pos. 15

Seq#:4; N Pos. 14

Seq#:5; N Pos. 15

VERIFICATION SUMMARY

DATE: 05/22/2002

PATENT APPLICATION: US/10/087,631A

TIME: 11:25:36

Input Set : A:\1803.txt

Output Set: N:\CRF3\05222002\J087631A.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:58 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0  
L:76 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0  
L:94 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0